Name: _____

CLASSIFICATION JIGSAW

Lesson Objective

What I need to learn: Be able to recognize the characteristics of the 6 kingdoms.

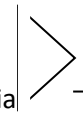
Why I need to learn it: To correctly classify organisms into the six kingdoms.

I will know I have learned it if I can:

- ☐ 1. Define prokaryote, eukaryote, unicellular, multicellular, autotroph, heterotroph, asexual and sexual reproduction
- ☐ 2. Categorize organisms into their kingdom based on characteristics such as type of cell, number of cells, mode of nutrition, and mode of reproduction.

1. You will be assigned a group. This is your "home" group. Your home group will classify organisms into kingdoms based on their characteristics. But first, you must know the characteristics of each kingdom. Each of you will become an expert in one or two kingdoms, then you will return to your home group and teach your groupmates about your kingdom(s).

2. Choose the Kingdom you will specialize in. Write you name next to your choice:

Kingdom Eubacteria
Kingdom Archaebacteria  _____

Kingdom Protista _____

Kingdom Fungi _____

Kingdom Plantae _____

Kingdom Animalia _____

3. Next, each of you will watch a video about your kingdom. Instructions on how to find the video will be given to you by your teacher. As you watch the video, take notes and fill in your "Kingdom Expert Sheet".

4. When instructed, go to the assigned station for the kingdom you chose. You are to work with the other members of your "Expert" group to check and complete the information on your "Kingdom Expert Sheet". Use the Kingdom card at your station to help with group discussion.

5. Once everyone's expert sheet is completed you will work as a team to separate the Characteristic Cards into two piles. One TRUE pile for the characteristics found in your kingdom and one FALSE pile for the characteristics not in your kingdom. When you are finished, get the key from your teacher and check your answers. Discuss any misconceptions with the group.

6. When your "Expert" group is finished sorting the cards correctly and you are confident that you can explain your kingdom well enough to teach others, you will return to your home group.

7. Once all members have rejoined the homegroup, set your white board up like the example below.

Kingdoms

Eubacteria	Archaebacteria	Protista	Fungi	Plantae	Animalia

8. Take turns (starting with Kingdom Eubacteria) describing the characteristics of each kingdom to the rest of the group as one person records the information on the white board.

9. Once the white board is complete, each group member needs a "Kingdom Chart" (get this from your teacher). Fill in your Kingdom Chart using the information on the white board and by talking to each Kingdom Expert at your table if more information is needed to complete the chart.

10. Once everyone's chart is filled in, you will all work together to identify the correct kingdoms for the organisms on the scenario cards. Take out your cards and place the kingdom names in a row on your table. You should place them in order from least complex to most complex. As you identify the kingdom each scenario describes, place the card under that kingdom.

Name: _____ Date: _____

KINGDOM EXPERT SHEET

My Kingdom: _____

Domain name: _____

Type of cell: Identify as prokaryote or eukaryote and explain what this means.

_____

_____

_____

Number of cells: Identify as unicellular, multicellular or both and explain what this means.

_____

_____

_____

External cellular structures: Identify structure(s) surrounding each cell and what the key component of this structure is.

_____

_____

_____

Internal cellular structures: Identify major internal structures and give their function.

_____

_____

_____

Mode of nutrition: Identify as autotroph, heterotroph or both and explain what this means.

_____

_____

_____

Mode of reproduction: Identify as asexual, sexual or both and explain what this means.

_____

_____

_____

Unique characteristic: Identify characteristics that are specific to this kingdom or that are common in this kingdom.

_____

_____

_____

Examples: Include names and images (drawings) of organisms in this kingdom.

Names:

_____ _____ _____

_____ _____ _____

Images: